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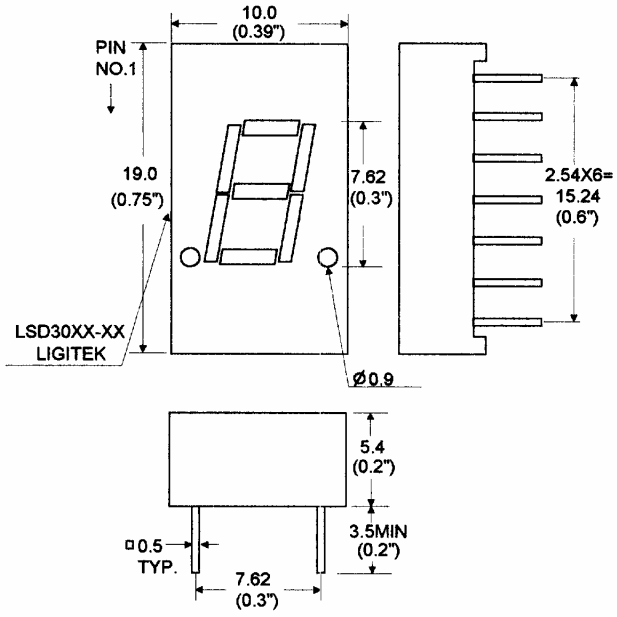
Jameco Part Number 24731

LIGITEK

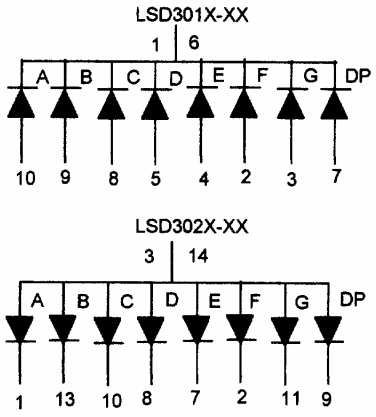
SINGLE DIGIT LED DISPLAY (0.3Inch) **LSD301X/2X** *series* *Page 1/2*

PACKAGE DIMENSION



NOTE: All Dimension Are In Millimeters And (Inch)
Tolerance Is ±0.25(0.01") Unless Otherwise Noted

INTERNAL CIRCUIT DIAGRAM



- **Connection To Electrical Schematic**

Electrical Connection

PIN NO.	LSD301X-XX	PIN NO.	LSD302X-XX
1	Common Cathode	1	Cathode A
2	Anode F	2	Cathode F
3	Anode G	3	Common Anode
4	Anode E	4	No Pin
5	Anode D	5	No Pin
6	Common Cathode	6	No Connect
7	Anode Dp	7	Cathode E
8	Andoe C	8	Cathode D
9	Anode B	9	Cathode DP
10	Andoe A	10	Cathode C
11		11	Cathode G
12		12	No Pin
13		13	Cathode B
14		14	Common Anode

文件編號：**QW0905-S301/2X-XX** 版本：A 生效日期：**May . 17 . 1996**

• Part Selection And Application Information (Ratings At 25°C Ambient)

PART NO	CHIP		common cathode or anode	λP (nm)	Δλ (nm)	Electrical					IV-M
						Vf(v)			Iv(mcd)		
	Material	Emitted				*Min*	*Typ.*	*Max*	*Min*	*Typ.*	
LSD3015-XX	GaAlAs	Red	Common Cathode	660	20	1.5	1.7	2.1	0.3	0.5	2:1
LSD3011-XX	GaP	Red		697	90	1.7	1.9	2.2	0.5	0.8	2:1
LSD3012-XX	GaP	Green		565	30	1.7	1.9	2.2	1.2	2.0	2:1
LSD3013-XX	GaAsP/GaP	Yellow		585	35	1.7	1.9	2.2	1.1	1.8	2:1
LSD3014-XX	GaAsP/GaP	Orange		635	45	1.7	1.9	2.2	1.2	2.0	2:1
LSD3025-XX	GaAlAs	Red	Common Anode	660	20	1.5	1.7	2.1	0.3	0.5	2:1
LSD3021-XX	GaP	Red		697	90	1.7	1.9	2.2	0.5	0.8	2:1
LSD3022-XX	GaP	Green		565	30	1.7	1.9	2.2	1.2	2.0	2:1
LSD3023-XX	GaAsP/GaP	Yellow		585	35	1.7	1.9	2.2	1.1	1.8	2:1
LSD3024-XX	GaAsP/GaP	Orange		635	45	1.7	1.9	2.2	1.2	2.0	2:1

• Absolute Maximum Rating (Ta=25°C)

Parameter	Red			Green		Yellow			Orange		Unit	Remark
Forward Current Per Chip	*SR*		*H*		*G*		*Y*			*E*		
	40		15		30		20			30	mA	
Peak Current Per Chip (Duty 1/10, 0.1MS Pulse Width)	200		60		120		80			120	mA	
Power Dissipation Per Chip	110		45	100		85			100		mW	
Derating Linear From 25°C Per Chip	0.45		0.25	0.45		0.45			0.45		mA/ °C	
Reverse Current Per Any Chip	10			10		10			10		μA	
Operating Temperature	-40°C TO +85°C											
Storage Temperature	-40°C TO +100°C											

Solder Temperature 1/16 Inch Below Seating Plane For 3 Seconds At 260°C

• Test Condition For Each Parameter

Parameter	Symbol	Unit	Test Condition
Forward Voltage Per Chip	Vf	volt	If=3mA
Luminous Intensity Per Chip	Iv	mcd	If=3mA
Peak Emission Wavelength	λP	nm	If=20mA
Spectral Line Half-Width	Δλ	nm	If=20mA
Reverse Current Any Chip	Ir	μA	Vr=5V
Luminous Intensity Matching Ratio	IV-M		